

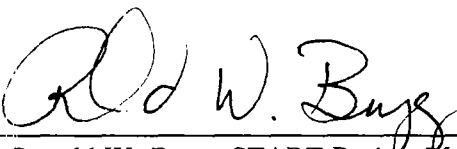
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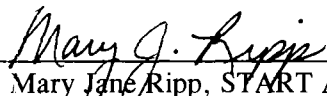
SITE ASSESSMENT REPORT
FOR
THE UNITED AIR CLEANER SITE 11/20/98
CHICAGO, COOK COUNTY, ILLINOIS
TDD: S05-9804-008
PAN: 8A0801SIXX

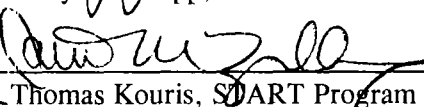
November 20, 1998

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Emergency and Enforcement Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604

Prepared by:  Date: 11/20/98
Ronald W. Bugg, START Project Manager

Reviewed by:  Date: 11/20/98
Mary Jane Ripp, START Assistant Program Manager

Approved by:  Date: 11/20/98
for Thomas Kouris, START Program Manager



Environmental and Enforcement, Inc.
International Specialists in the Environment

33 North Dearborn Street, Chicago, Illinois 60602
Tel. 312/578-9243, Fax: 312/578-9345

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1. Introduction

The Ecology and Environment, Inc. (E & E), Superfund Technical Assessment and Response Team (START) was tasked by the Emergency Response Branch (ERB) of the United States Environmental Protection Agency (U.S. EPA) to conduct a site assessment at the United Air Cleaners (UAC) site in Chicago, Cook County, Illinois, under Technical Direction Document (TDD) S05-9804-008. START was tasked to prepare and implement a health and safety plan; compile and review background information; subcontract analytical services; document conditions at the site; conduct air monitoring and multi-media sampling; evaluate threats to human health and the environment; and make recommendations and provide options to U.S. EPA as to the potential need for a removal action, further investigation, referral to other government agencies or U.S. EPA programs, or other actions which may be prudent. The site assessment was performed in accordance with the National Contingency Plan (NCP) in the Code of Federal Regulations (CFR) Section 300.415 to evaluate on-site conditions and possible threats to human health, welfare, and the environment. The site assessment was conducted on April 23, 1998, under the authority of the U.S. EPA On-Scene Coordinator (OSC) Keith Lesniak. This report summarizes START site assessment activities.

2. Site Background

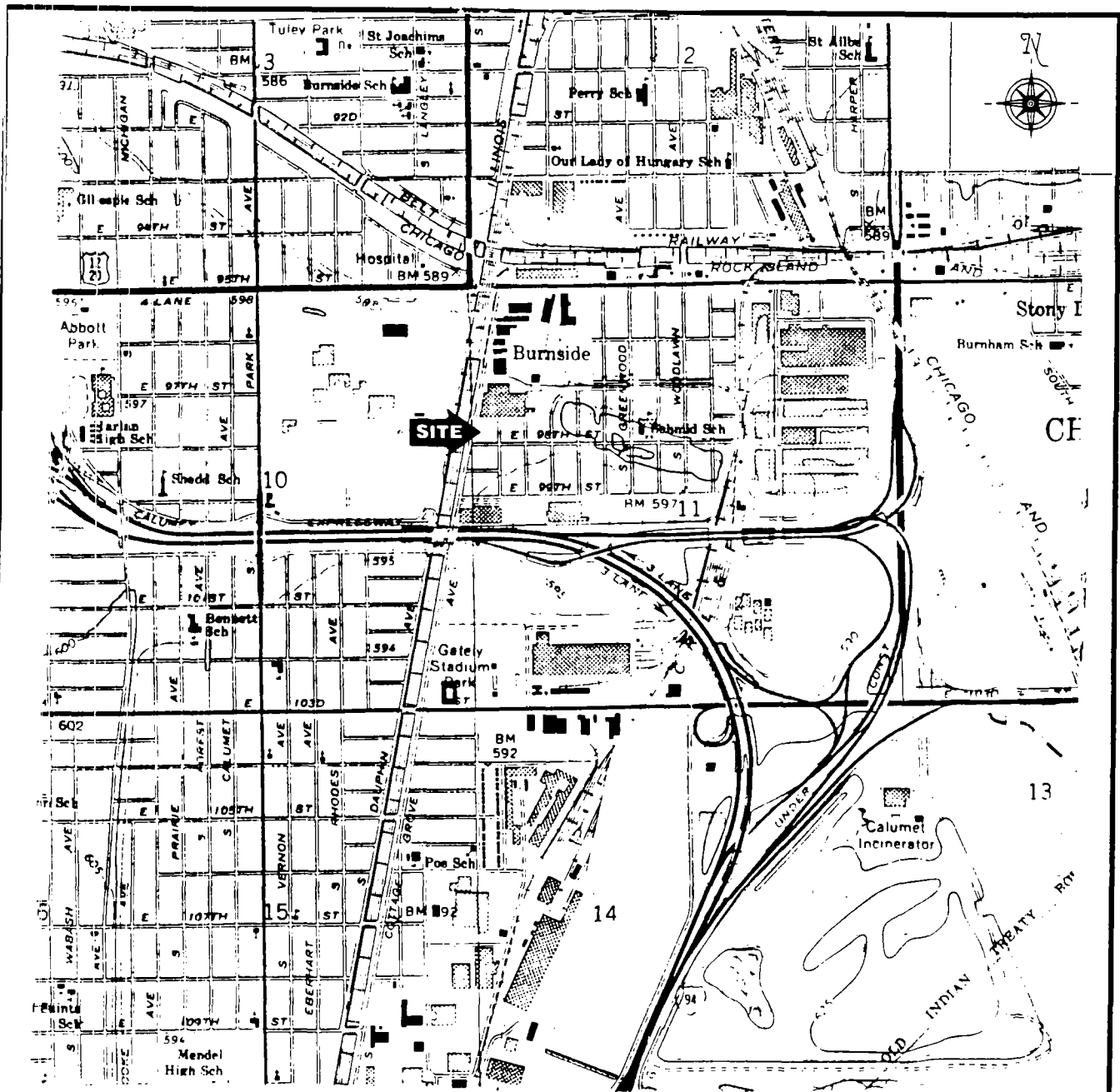
2.1 Site Description

The UAC site is a 2-acre site located at 9701 Cottage Grove Avenue in Chicago, Cook County, Illinois (Figure 2-1). The 25,000-square-foot building includes office, manufacturing, and warehouse areas. Commercial and residential properties surround the facility. To the north is a commercial property, and south and east of the site are residential subdivisions and a vacant commercial lot. West of Cottage Grove Avenue are railroad tracks owned by the Illinois Central Railroad Company (Figure 2-2).

The property is accessible via several doorways throughout the building, which had been vandalized. The transformer staging area, which is directly south of the building, is partially fenced. However, vandals gained access to the area by removing a section of the fence. The copper material inside three transformers has been scrapped and the soil surrounding the transformers was stained.

2.2 Site History

UAC manufactured air filters for diesel engines in large equipment and trucks. The facility operated until February of 1997, and the property is presently for sale.



Quadrangle Location



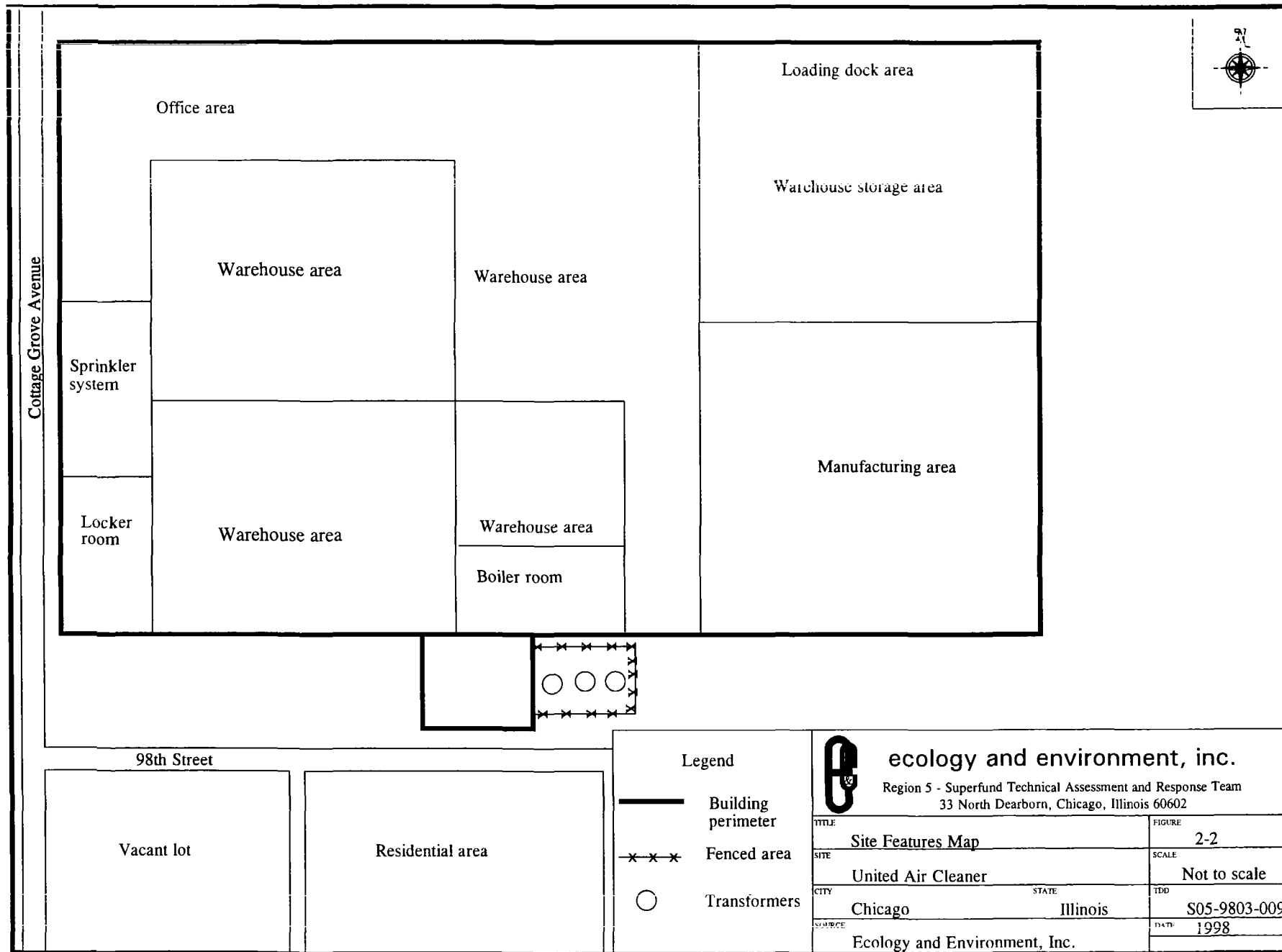
ecology and environment, inc.

Superfund Technical Assessment and Response Team

Region 5

33 North Dearborn Street, Suite 900, Chicago, Illinois 60602

TITLE Site Location Map		FIGURE 2-1
SITE United Air Cleaner		SCALE 1:24,000
CITY Chicago	STATE Illinois	TDD S05-9803-009
SOURCE USGS 7.5 Minute Series, Lake Calumet, Illinois Quadrangle		DATE 1965
		REVISED 1973



3. Site Assessment

At 0900 hours, on April 23, 1998, START members Ron Bugg and Karen Kirchner met with OSC Lesniak at the site. The group discussed the site investigation, and reviewed the health and safety plan. The OSC and START members began a general reconnaissance of the site in level C personal protective equipment (PPE). The facility was in poor condition; vandals had scattered debris on the floor, and there was a major break in the main line of the sprinkler system in the front of the building. The southwest section of the facility, which was used as a warehouse area, was covered with 3 to 6 inches of water.

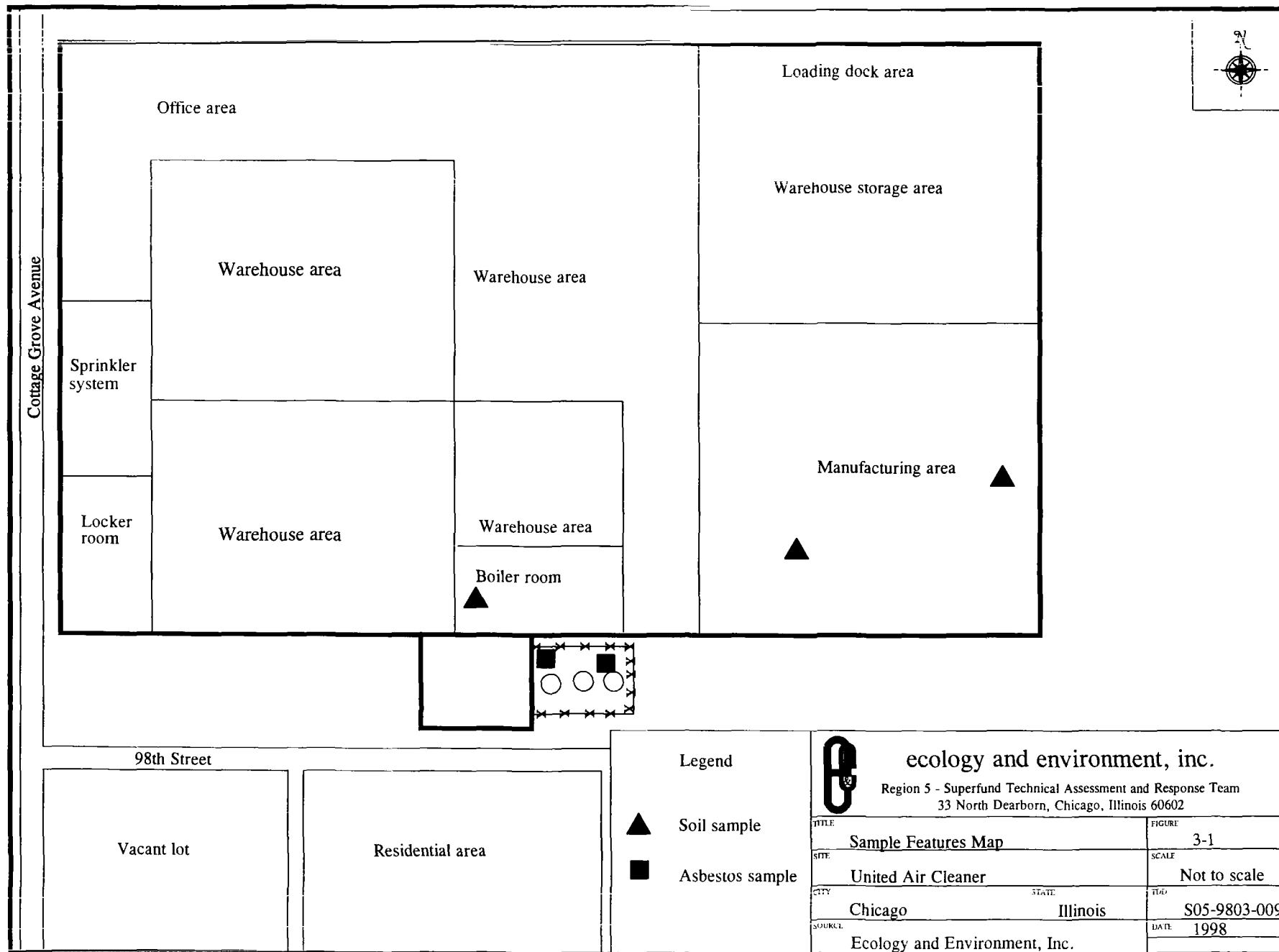
Asbestos-containing material (ACM), which was used as boiler insulation, was removed in several areas and discarded onto the floor of the boiler room by vandals. Additional material from the light and the heating systems in the offices of the northwest section of the facility were removed.

The northeast and the southeast sections, which were the manufacturing areas, contained several scattered pallets of air filters. Several drums, which were either empty or used as nonhazardous waste receptacles, were located throughout the manufacturing area. One half-full 35-gallon drum containing a mixture of tar and paint generated from the large paint hood was observed. START members monitored the headspace inside the drum volatile organic compounds using a photoionization detector (PID). The readings ranged from 10 to 20 parts per million above background at approximately 2 inches from the surface of the material. Outside the drums, the PID did not detect any readings above background. No sample was collected from the drum.

After completing the reconnaissance, START member Bugg began to collect ACM samples from the pipe and boiler insulation. At 0955 hours, sample AS-1 was collected from pipe insulation located at the southeast section of the building. The sample was placed inside a plastic ziplock bag and labeled. At 0958 hours, sample AS-2 was collected from pipe insulation located approximately 30 yards west of sample AS-1. At 1003 hours, sample AS-3 was collected from debris inside the boiler room. After the final ACM sample was collected, grab soil samples were collected from two separate stained soil locations inside the transformer staging area. The transformer staging area was

approximately 200 square feet. At 1010 hours, sample S-1 was collected from stained soil at the western section of the transformer staging area. At 1020 hours, sample S-2 was collected from the eastern section of the staging area. Each soil sample was collected at a depth of 3 to 6 inches below the surface and analyzed for polychlorinated biphenyls (PCBs). The samples were properly stored with ice inside a cooler. At 1100 hours, the group demobilized from the site.

START labeled and secured the samples for shipment. START Kirchner delivered the samples to National Environmental Testing, Inc. (NET), on April 27, 1998.



4. Analytical Results

A total of five samples, three ACM and two soil samples, were collected from the UAC site. The samples were delivered to NET at 850 West Bartlett Road, Bartlett, Illinois. The three ACM samples were analyzed by polarized light microscopy (PLM) to determine the asbestos concentration. The soil samples were analyzed using National Institute for Occupational Safety and Health (NIOSH) Method 8082 for PCBs. The OSC requested verbal results within two weeks of the delivery date and three weeks for a final analytical report. E & E generated a quality assurance/quality control (QA/QC) report on the analytical results (Attachment B). The analytical results are summarized in Table 4-1.

<p align="center">Table 4-1</p> <p align="center">ANALYTICAL RESULTS SUMMARY</p> <p align="center">UNITED AIR CLEANER SITE</p> <p align="center">CHICAGO, COOK COUNTY, ILLINOIS</p> <p align="center">JUNE 5, 1998</p>					
Parameter	Sample Designation				
	AS-1 ^a	AS-2 ^a	AS-3 ^a	S-1 ^b	S-2 ^b
Amosite (Percentage)	ND	ND	18 %	NA	NA
Chrysotile (Percentage)	NA	30 %	ND	NA	NA
PCB-1016 (mg/kg)	NA	NA	NA	<7.5	<7.7
PCB-1221 (mg/kg)	NA	NA	NA	<7.5	<7.7
PCB-1232 (mg/kg)	NA	NA	NA	<7.5	<7.7
PCB-1242 (mg/kg)	NA	NA	NA	<7.5	<7.7
PCB-1248 (mg/kg)	NA	NA	NA	<7.5	<7.7
PCB-1254 (mg/kg)	NA	NA	NA	<7.5	<7.7
PCB-1260 (mg/kg)	NA	NA	NA	<7.5	<7.7

Key:

mg/kg = Milligrams per kilogram.

ND == Not detected or below detection limits of analytical method.

NA == Not analyzed.

^a == ACM bulk sample analyzed by PLM.

^b == Soil sample analyzed by NIOSH method 8082

Source: National Environmental Testing, Inc., Bartlett, Illinois, START analytical TDD S05-9804-809.

5. Discussion of Potential Threats

Conditions observed during the U.S. EPA investigation at the UAC site that constitute a threat to human health and/or the environment, and may be used to determine the appropriateness of a removal action, as outlined in Section 300.415 (b)(2) of the NCP, included:

- **Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or contaminants.** The potential exists for the trespassers to come into contact with the material. Throughout the facility vandalism was apparent; several doorways on the south side of the site were broken into, allowing accessibility to the site from the street; material from the ceiling and pipes were removed, and the unwanted material was discarded on the floor of the site; broken waterlines from the sprinkler system were noted; and UAC documents were discarded throughout the site. The only visible evidence of friable asbestos was on the floor of the boiler room. The moisture in the boiler room was due to the broken waterline in the sprinkler system and the leaking roof. Additional areas in the building contained pipe insulation containing at least 30% asbestos; these areas were located at the southeast section of the site. The insulation was in fair condition and was not friable. The asbestos pipe insulation is present on site but is not in a friable state to pose immediate threats to human health and/or the environment. However, it may pose future threats due to aging of the insulation and additional vandalism to the property. The transformers on site were broken into, but the samples collected from the stained soil near the two transformers did not indicate PCB contamination in the soil.

6. Removal Alternatives

Presently, the 2-acre site is for sale and U.S. EPA may request a deed restriction or a consent order for the present owners to properly remove ACM inside the boiler room before the property is sold. The quantity and the extent of contamination are not sufficient enough to require an emergency removal action by U.S. EPA. However, there is a concern of vandalism and trespassing on site property. To reduce the unauthorized entry into the UAC site, a temporary fence around the site should be installed.

7. Summary

ACM is present on site. The main area of concern is in the boiler room where the ACM is present on the floor. The site is accessible from the street from several locations and trespassing is possible. The soil sample results concluded that the stained soil around the transformers did not contain PCB oils. START recommends the installation of a fence to secure the site and prevent further access by vandals.

Appendix A

Photodocumentation



Site: UAC **Date:** April 23, 1998 **Direction:** E **Photographer:** R.Bugg
Location: 9701 Cottage Grove Avenue, Chicago, Cook County, Illinois
Subject: Northern section of the 25,000-square foot UAC building, which is for sale.



***Site:** UAC **Date:** April 23, 1998 **Direction:** NE **Photographer:** R.Bugg
Location: 9701 Cottage Grove Avenue, Chicago, Cook County, Illinois
Subject: Southern section of the UAC building. The transformer area is connected to the small garage area.



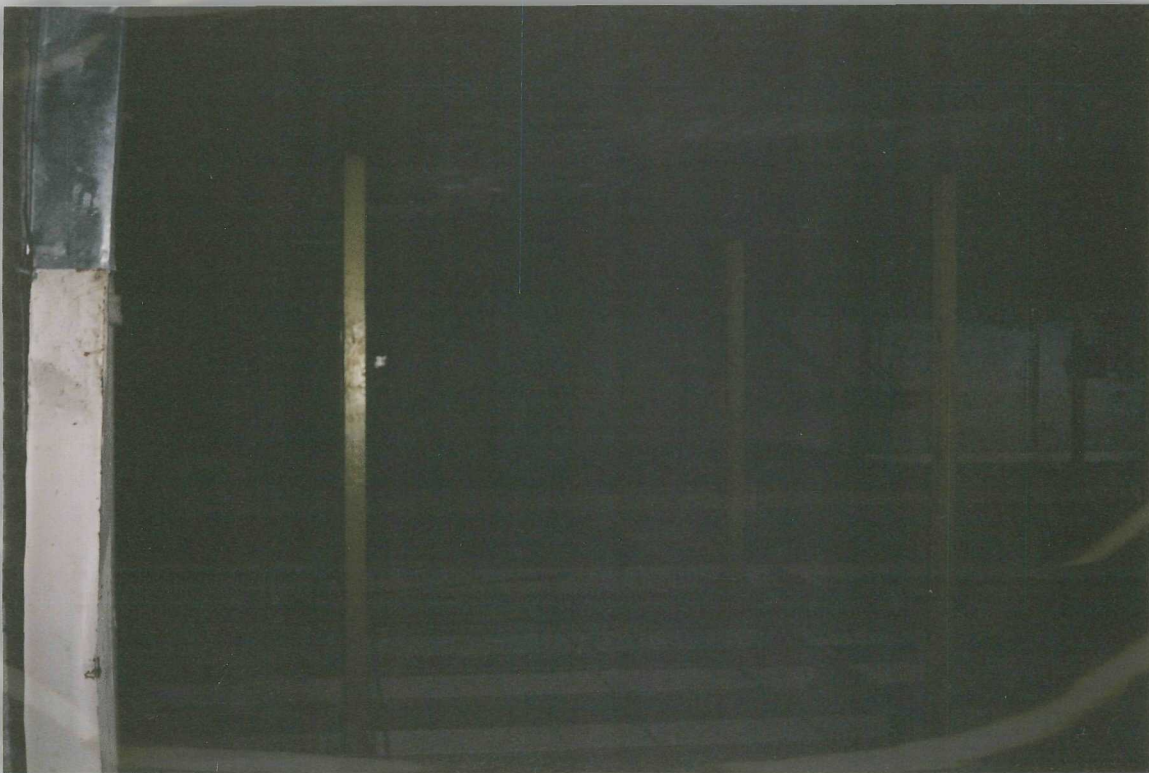
Site: UAC **Date:** April 23, 1998 **Direction:** SE **Photographer:** R.Bugg
Location: 9701 Cottage Grove Avenue, Chicago, Cook County, Illinois
Subject: Front entrance of the United Air Cleaner site on Cottage Grove Avenue.



Site: UAC **Date:** April 23, 1998 **Direction:** SE **Photographer:** R.Bugg
Location: 9701 Cottage Grove Avenue, Chicago, Cook County, Illinois
Subject: Manufactured air filters left on site. General area was vandalized.



Site: UAC **Date:** April 23, 1998 **Direction:** SE **Photographer:** R.Bugg
Location: 9701 Cottage Grove Avenue, Chicago, Cook County, Illinois
Subject: Warehouse area facing Cottage Grove Avenue, directly south of the
leaking sprinkler system.



Site: UAC **Date:** April 23, 1998 **Direction:** NW **Photographer:** R.Bugg
Location: 9701 Cottage Grove Avenue, Chicago, Cook County, Illinois
Subject: Flooded floor area on the western side of building, from the main line of the
sprinkler system.

Site: UAC
Location: 9701
Subject: Emp

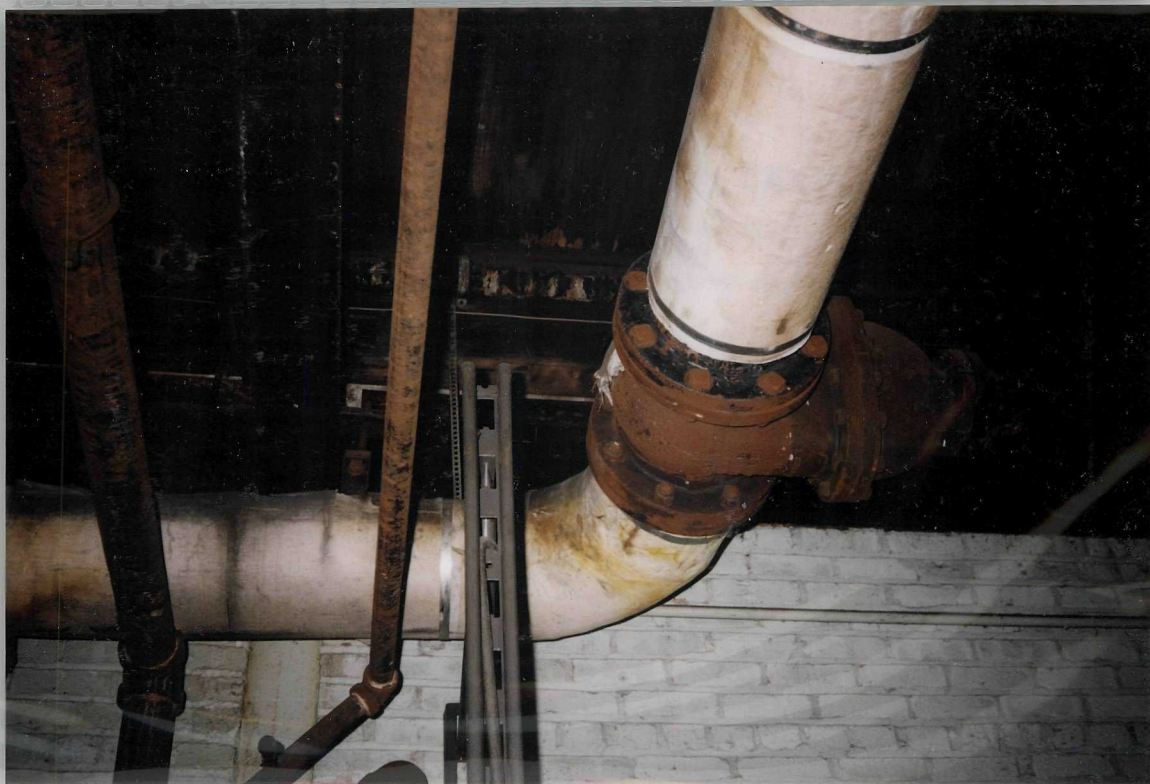
6-1111 052504
4x6" PRINTS



Site: UAC **Date:** April 23, 1998 **Direction:** W **Photographer:** R.Bugg
Location: 9701 Cottage Grove Avenue, Chicago, Cook County, Illinois
Subject: Equipment left on site. The bottom vat, which has oil-stained sides, contained a mixture of oil and water due to the leaking roof.



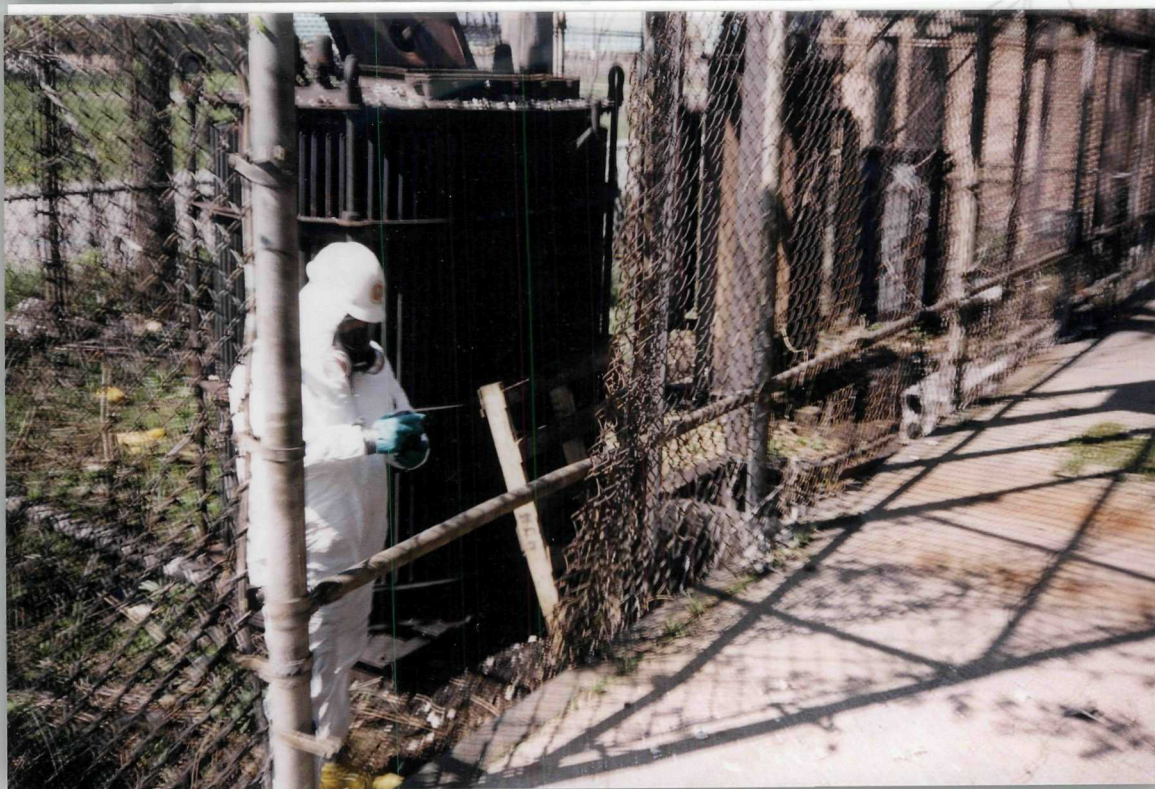
Site: UAC **Date:** April 23, 1998 **Direction:** E **Photographer:** R.Bugg
Location: 9701 Cottage Grove Avenue, Chicago, Cook County, Illinois
Subject: Empty warehouse area.



Site: UAC **Date:** April 23, 1998 **Direction:** W **Photographer:** R.Bugg
Location: 9701 Cottage Grove Avenue, Chicago, Cook County, Illinois
Subject: Sample AS-2 was collected from the pipe insulation located at the south central area of the warehouse.



Site: UAC **Date:** April 23, 1998 **Direction:** E **Photographer:** R.Bugg
Location: 9701 Cottage Grove Avenue, Chicago, Cook County, Illinois
Subject: Deteriorating pipe insulation located on the far east wall of the building. Sample AS-1 was collected from the insulation.



Site: UAC **Date:** April 23, 1998 **Direction:** SW **Photographer:** K. Kirchner
Location: 9701 Cottage Grove Avenue, Chicago, Cook County, Illinois
Subject: The transformer area, which was partially fenced. The area was located on the southern section outside the building.



Site: UAC **Date:** April 23, 1998 **Direction:** SW **Photographer:** R. Bugg
Location: 9701 Cottage Grove Avenue, Chicago, Cook County, Illinois
Subject: START member Bugg collected a grab sample from the stained soil next to the eastern transformer. The sample was labeled S-2.

Appendix B

Analytical Data



ecology and environment, inc.

International Specialists in the Environment

33 North Dearborn Street
Chicago, Illinois 60602
Tel. 312/578-9243, Fax: 312/578-9345

M E M O R A N D U M

DATE: June 29, 1998

TO: Ron Bugg, START Project Manager, E & E, Chicago, Illinois

FROM: David Hendren, START Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Mary Jane Ripp, START Assistant Program Manager, E & E, Chicago, Illinois

SUBJECT: Data Quality Review for Polychlorinated Biphenyls (PCBs), United Air Cleaner, Chicago, Cook County, Illinois

REFERENCE: Project TDD S05-9804-008 Analytical TDD S05-9804-809
Project PAN 8A0801SIXX Analytical PAN 8AAI01TAXX

The data quality assurance (QA) review of two soil samples collected from the United Air Cleaner site is complete. The samples were collected on April 23, 1998, by the Superfund Technical Assessment and Response Team (START) contractor, Ecology and Environment, Inc. (E & E). The samples were submitted to NET Laboratories, Inc., Bartlett, Illinois. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Method 8082.

Sample Identification

<u>START Identification No.</u>	<u>Laboratory Identification No.</u>
S-1	470325
S-2	470326

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected on April 23, 1998, extracted on May 1, 1998, and analyzed on May 13 and 14, 1998. This is within the 14-day holding time limit, from collection to extraction, and 40-day limit from extraction to analysis.

II. Instrument Performance: Acceptable

The chromatographic resolution was adequate in the standard and sample chromatograms. Surrogate retention times were consistent in the samples and standards.

III. Calibrations:

• Initial Calibration: Acceptable

A five-point initial calibration was performed prior to analysis. The percent relative standard deviations (%RSDs) between response factors were less than 20% for all PCBs.

• Continuing Calibration: Acceptable

The percent differences of the response factors were less than 15%, as required.

IV. Blank: Acceptable

A method blank was analyzed with the samples. No target compounds or contaminants were detected in the blank.

V. Compound Identification: Not Applicable

There were no detected PCBs in the samples.

VI. Additional QC Checks: Acceptable

The recoveries of the surrogates used in the samples were within acceptable laboratory limits.

VII. Overall Assessment of Data for Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990), Data Validation Procedures, Section 7.0, PCBs. Based upon the information provided, the data are acceptable for use.



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Bartlett Division
850 West Bartlett Rd.
Bartlett, IL 60103
Tel: (630) 289-3100
Fax: (630) 289-5445

Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622
(800) 807-2877

ANALYTICAL REPORT

Mr. Dave Hendren
ECOLOGY & ENVIRONMENT, INC
33 N. Dearborn
Suite 900
Chicago, IL 60602

05/19/1998

Sample No. : 470325

NET Job No.: 98.05497

Sample Description: (S-1) North East Corner
United Air Cleaner; S05-9804-809

Date Taken: 04/23/1998
Time Taken: 10:10
IEPA Cert. No. 100221

Date Received: 04/27/1998
Time Received: 13:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	66.9	%	05/04/1998	0.1	cao	2208	2540 (4)
PCB Non-Aqueous Extraction	Complete		05/01/1998		rad	244	5503 (10)
PCB'S NON-AQUEOUS - 8082							
PCB-1016	<7.5	mg/Kg	05/14/1998	0.5	out	244 711	8082 (1)
PCB-1221	<7.5	mg/Kg	05/14/1998	0.5	out	244 711	8082 (1)
PCB-1232	<7.5	mg/Kg	05/14/1998	0.5	out	244 711	8082 (1)
PCB-1242	<7.5	mg/Kg	05/14/1998	0.5	out	244 711	8082 (1)
PCB-1248	<7.5	mg/Kg	05/14/1998	0.5	out	244 711	8082 (1)
PCB-1254	<7.5	mg/Kg	05/14/1998	0.5	out	244 711	8082 (1)
PCB-1260	<7.5	mg/Kg	05/14/1998	0.5	out	244 711	8082 (1)
Dechlorobiphenyl (Surr)	253.0	MX %	05/14/1998		out	244 711	8082 (1)
2,1,5,6-TCMX (Surr)	97.0	%	05/14/1998		out	244 711	8082 (1)

PCB RESULTS ARE REPORTED ON A DRY WEIGHT BASIS

PCB analysis was performed at a 10x dilution due to sample matrix.

MX : Surrogate recovery outside of the acceptance limits due to matrix interference.



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Bartlett Division
850 West Bartlett Rd.
Bartlett, IL 60103
Tel: (630) 289-3100
Fax: (630) 289-5445

Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622
(800) 807-2877

ANALYTICAL REPORT

Mr. Dave Hendren
ECOLOGY & ENVIRONMENT, INC
33 N. Dearborn
Suite 900
Chicago, IL 60602

05/19/1998

Sample No. : 470326

NET Job No.: 98.05497

Sample Description: (S-2) North West Corner
United Air Cleaner; S05-9804-809

Date Taken: 04/23/1998
Time Taken: 10:20
IEPA Cert. No. 100221

Date Received: 04/27/1998
Time Received: 13:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	65.0	%	05/04/1998	0.1	cao	2208	2540 (4)
PCE Non-Aqueous Extraction	Complete		05/01/1998		rad	244	5503 (10)
PCE'S NON-AQUEOUS - 8082							
PCE-1016	<7.7	mg/Kg	05/13/1998	0.5	out	244 711	8082 (1)
PCE-1221	<7.7	mg/Kg	05/13/1998	0.5	out	244 711	8082 (1)
PCE-1232	<7.7	mg/Kg	05/13/1998	0.5	out	244 711	8082 (1)
PCE-1242	<7.7	mg/Kg	05/13/1998	0.5	out	244 711	8082 (1)
PCE-1248	<7.7	mg/Kg	05/13/1998	0.5	out	244 711	8082 (1)
PCE-1254	<7.7	mg/Kg	05/13/1998	0.5	out	244 711	8082 (1)
PCE-1260	<7.7	mg/Kg	05/13/1998	0.5	out	244 711	8082 (1)
Decachlorobiphenyl (Surr)	250.0	MX %	05/13/1998	NA	out	244 711	8082 (1)
2,4,5,6-TCMX (Surr)	96.0	%	05/14/1998	NA	out	244 711	8082 (1)

PCB RESULTS ARE REPORTED ON A DRY WEIGHT BASIS

PCB analysis was performed at a 10x dilution due to sample matrix.

MX : Surrogate recovery outside of the acceptance limits due to matrix interference.



ecology and environment, inc.

International Specialists in the Environment

33 North Dearborn Street
Chicago, Illinois 60602
Tel. 312/578-9243, Fax: 312/578-9345

M E M O R A N D U M

DATE: June 29, 1998

TO: Ron Bugg, START Project Manager, E & E, Chicago, Illinois

FROM: David Hendren, START Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Mary Jane Ripp, START Assistant Program Manager, E & E, Chicago, Illinois

SUBJECT: Data Quality Review for Asbestos, United Air Cleaner, Chicago, Cook County, Illinois

REFERENCE: Project TDD S05-9804-008 Analytical TDD S05-9804-809
Project PAN 8A0801SIXX Analytical PAN 8AAI01TAXX

The data quality assurance (QA) review of three solid samples collected from the United Air Cleaner site is complete. The samples were collected on April 23, 1998, by the Superfund Technical Assessment and Response Team (START) contractor, Ecology and Environment, Inc. (E & E). The samples were submitted to NET Laboratories, Inc., Bartlett, Illinois. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) 40 CFR, Part 763, Appendix A to Subpart F, using polarized light microscopy (PLM).

Sample Identification

<u>START</u> <u>Identification No.</u>	<u>Laboratory</u> <u>Identification No.</u>
AS-1	470322
AS-2	470323
AS-3	470324

United Air Cleaner
Project TDD S05-9804-008
Analytical TDD S05-9804-809
Asbestos
Page 2

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected on April 23, 1998, and analyzed on May 5, 1998. The Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990) does not specify a holding time for this parameter.

II. Overall Assessment of Data for Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in OSWER Data Validation Procedures, Section 9.0, Generic Data Validation Procedures. Based upon the information provided, the data are acceptable for use.

From: cedar>mkm
Subject: Asbestos Results
To: bartlett>out
Cc:
Sent: 05/06/98
Received: 05/06/98

ANALYTICAL REPORT

Mr. Brian Wanner
NET - BARTLETT
850 West Bartlett Road
Bartlett, IL 60103

05/06/1998
Sample No.: 448925
Job Number: 98.04929

SAMPLE DESCRIPTION: #470322 98.05497 Ecology & Env.

Date Taken: 04/23/1998

Date Received: 05/01/1998
ASBESTOS IDENTIFICATION

BULK SAMPLE ANALYSIS

	% By Visual Estimation	Flag	Date Analyzed	Analyst
Sample Color	OW		05/05/1998	lmc
FIBROUS ASBESTIFORMS	.			
Actinolite/Tremolite	ND			
Amosite	ND			
Anthophyllite	ND			
Chrysotile	30			
Crocidolite	ND			
Total Fibrous Asbestiforms	30			
OTHER FIBROUS COMPONENTS	.			
Cellulose	ND			
Fibrous Glass	ND			
Synthetics	ND			
Other	ND			
NONFIBROUS COMPONENTS	70			

All analyses are performed in accordance with EPA 40 CFR, Part 763, Appendix A to Subpart F using EPA's "Interim Method for the Determination of Asbestos in bulk Insulation Samples" and/or the Test Method "Method for the Determination of Asbestos in Bulk Building Materials".

ND means less than 1%, and % refers to percent by area.
Key to Flags:

ANALYTICAL REPORT

Mr. Brian Wanner
NET - BARTLETT
850 West Bartlett Road
Bartlett, IL 60103

05/06/1998
Sample No.: 448926
Job Number: 98.04929

SAMPLE DESCRIPTION: #470323 98.05497 Ecology & Env.

Date Taken: 04/23/1998

Date Received: 05/01/1998

ASBESTOS IDENTIFICATION

BULK SAMPLE ANALYSIS

	% By Visual Estimation	Flag	Date Analyzed	Analyst
Sample Color	BR&GR		05/05/1998	lmc
FIBROUS ASBESTIFORMS	.			
Actinolite/Tremolite	ND			
Amosite	ND			
Anthophyllite	ND			
Chrysotile	30			
Crocidolite	ND			
Total Fibrous Asbestiforms	30			
OTHER FIBROUS COMPONENTS	.			
Cellulose	10			
Fibrous Glass	ND			
Synthetics	ND			
Other	ND			
NONFIBROUS COMPONENTS	60			

All analyses are performed in accordance with EPA 40 CFR, Part 763, Appendix A to Subpart F using EPA's "Interim Method for the Determination of Asbestos in bulk Insulation Samples" and/or the Test Method "Method for the Determination of Asbestos in Bulk Building Materials".

ND means less than 1%, and % refers to percent by area.
Key to Flags:

Michael K. McGee, CIH
Division Manager

ANALYTICAL REPORT

Mr. Brian Wanner
NEI - BARTLETT
850 West Bartlett Road
Bartlett, IL 60103

05/06/1998
Sample No.: 448927
Job Number: 98.04929

SAMPLE DESCRIPTION: #470324 98.05497 Ecology & Env.

Date Taken: 04/23/1998

Date Received: 05/01/1998

ASBESTOS IDENTIFICATION

BULK SAMPLE ANALYSIS

	% By Visual Estimation	Flag	Date Analyzed	Analyst
Sample Color	OW		05/05/1998	lmc
FIBROUS ASBESTIFORMS	.			
Actinolite/Tremolite	ND			
Amosite	18			
Anthophyllite	ND			
Chrysotile	ND			
Crocidolite	ND			
Total Fibrous Asbestiforms	18			
OTHER FIBROUS COMPONENTS	.			
Cellulose	ND			
Fibrous Glass	ND			
Synthetics	ND			
Other	ND			
NONFIBROUS COMPONENTS	82			

All analyses are performed in accordance with EPA 40 CFR, Part 763, Appendix A to Subpart F using EPA's "Interim Method for the Determination of Asbestos in bulk Insulation Samples" and/or the Test Method "Method for the Determination of Asbestos in Bulk Building Materials".

ND means less than 1%, and % refers to percent by area.
Key to Flags:

Michael K. McGee, CIH
Division Manager